



PINTAIL

Special purpose winter wheat

- Yields 4% higher than CWSP checks
- Excellent winter survival
- Resistant to stripe rust

Strengths of Pintail

- Grain yield is 104% of the special purpose winter wheat checks over 3 years of testing.
- Particularly well adapted to the Parkland region where cold tolerance is a concern.
- Very good winter hardiness, exceeding all CWSP checks.
- Resistant to stripe rust. Moderate resistance to leaf spots and powdery mildew. Intermediate resistance to stem and leaf rust.
- Intermediate maturity and moderate height.
- Good lodging resistance.
- Awnless spike which lends itself to improved silage palatability.
- Test weight similar to special purpose winter wheat checks.

Pintail was developed by Western Crop Innovations and is available through [Mastin Seeds](#).

Table 1. Grain yield (t/ha) of Pintail compared to check cultivars by area* in the Western Winter Wheat Cooperative Registration Trial, 2008 – 2010.

Entry	3 Year Mean Yield (t/ha) [†]				
	Southern Alberta	Parkland	Semi-arid Prairie [‡]	Rust Area	Mean
Pintail	6.22	5.35	4.30	6.20	5.88
CDC Harrier	6.13	5.03	4.53	6.18	5.79
CDC Falcon	6.09	4.97	3.62	5.75	5.56
CDC Ptarmigan	-	-	3.96	-	-
Check Mean	6.11	5.0	4.04	5.96	5.68
LSD _{0.05}	0.51	0.6	0.53	0.49	0.29
Location Years	10	5	2	8	25

* Southern Alberta, including Lethbridge irrigated and dry, Warner, and Vauxhall.

Parkland sites, including Lacombe, Olds, Beaverlodge, Melfort.

Semi-arid prairie, including Swift Current.

Rust hazard sites, including Saskatoon, Indian Head, Brandon, Carman, Winnipeg.

[†]All means are weighted by the number of location-years.

[‡] Semi-arid prairie is 2 year mean (2009-2010).

Table 2. Seed and agronomic traits of Pintail compared to check cultivars in the Western Winter Wheat Cooperation Registration Trial (2008 – 2010).

Entry	Test Weight kg/hl	Kernel Weight mg	Grain Protein %	Winter Survival %	Maturity days	Height cm	Lodging 1-9
Pintail	76.2	29.3	10.5	90	220	90	3.2
CDC Harrier	76.6	32.2	10.8	87	219	97	3.2
CDC Falcon	78.1	30.7	11.4	84	216	77	2.6
Check Mean	77.3	31.4	11.1	86	218	87	2.9
LSD _{0.05}	0.5	0.9	0.4	5	1.1	2	0.6
Location Years	26	26	24	20	18	23	13

Grain protein concentration determined using whole grain near infrared reflectance analysis.

Days to maturity expressed as day of the year.

Height measured from ground to tip of spike, excluding awns.

Lodging scale 1 = all plants vertical, 9 = all plants horizontal.

Table 3. Overall disease ratings of Pintail averaged over the Western Winter Wheat Cooperation Registration Trial (2008 – 2010).

Entry	Stripe Rust	Stem Rust	Leaf Rust	Common Bunt	Powdery Mildew	Leaf Spots	FHB
Pintail	R	MS	MS	VS	MR	MR	S
CDC Harrier	S	I	MS	VS	MR	MR	MR
CDC Falcon	I	MR	MR	VS	MR	MR	S
CDC Ptarmigan	S	S	MS	VS	MR	MR	I

R – resistant, MR – moderately resistant, I – intermediate, MS – moderately susceptible, S – susceptible.